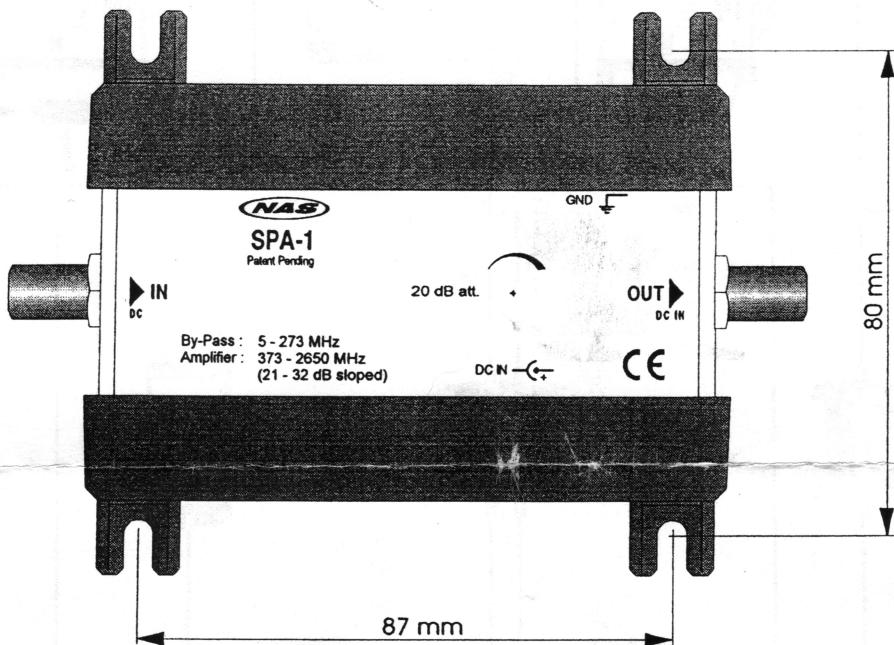


# Satellite Power Amplifier

SPA-1

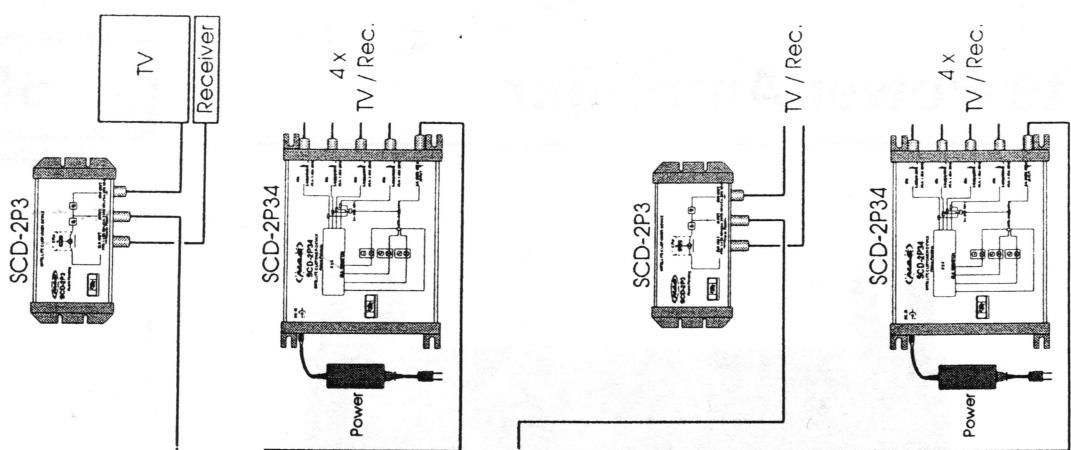
Patent Pending



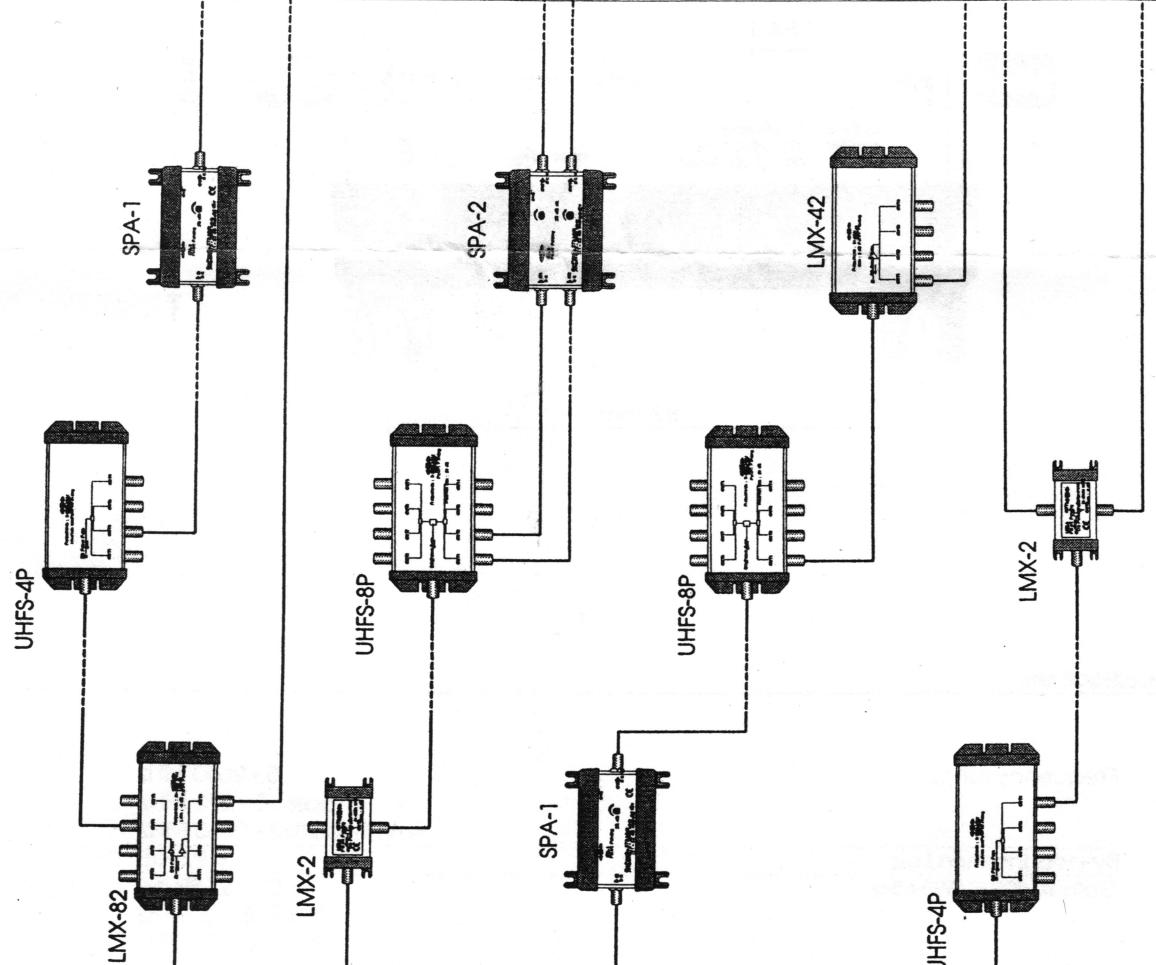
## Technical Specifications

Frequency range	5 - 2650 MHz
By-pass Insertion Loss	By-pass : 5 - 273 MHz
Gain @ 400 - 2650 MHz	Amplified : 373 - 2650 MHz < 2.5 dB
	21 - 32 Slope
	21 dB @ 400 MHz
	26 dB @ 950 MHz
	28 dB @ 1450 MHz
	32 dB @ 2150 MHz
	32 dB @ 2650 MHz
Flatness	± 0.5 dB Max. @ 24 MHz for any transponders
Interstage attenuator	0 - 20 dB
Noise Figure	< 9.0 dB @ 500 MHz < 7.0 dB above 1 GHz
Max. Output Level (IM3, 35 dB / 2 carriers)	+ 7.0 dBm @ 400 - 2650 MHz
Input Return Loss	> 8.0 dB, Typ. 10.0 dB
Output Return Loss	> 8.0 dB, Typ. 10.0 dB
Isolation : Sat to VHF	> 25 dB
DC power pass	1000 mA Max. from OUT to IN and from DC Jack to IN (2.5 mm.)
Input DC Voltage	10 V Min., 20 V Max. from Headend
Power Consumption	150 mA Max.
Environmental requirement	Indoor use
Connectors	"F" High Quality, conical seize
Dimensions	133 mm x 92 mm x 41 mm

User



Distribution



Headend

